

Table S1 Details for primers sequences of real-time PCR

Genes	Forward Primer sequences	Reverse Primer sequences
<i>MCM3</i>	GTCTACGGCAGGTATGACCA	GTAACGGTGCATCCGAAGGA
<i>NLRC4</i>	TCAGGACTTGAATGGACAAAGTCT	GTTGGTCCTTCTCCACAGG
<i>SPTBN1</i>	ATGTGGACAAGGCCCTTCAG	TTGACATTGGGGTACCCAGC
<i>ELP3</i>	GGTGGATATCATTGCTGCCG	TCCACCAGGGCAGTATACACA
<i>SLFN5</i>	GAGTTTGTCTATCTGCCACGC	CCACTCTGTCTGAAAATACTGGAA
<i>RNASEL</i>	GGAAGTGGGAGAGCCGCTA	AGATCACCCACAGTGTCTGG
<i>GIMAP6</i>	TGGAGCTGTCTCAGGAGGTCTA	CTGGGGCGGATAAGACGATG
<i>GIMAP8</i>	GATGCTGGCTCCTCCCTG	CTCCCGCTTGTCTGGGTG
<i>TRIM27</i>	ATCAATGGTGCCATCACCCA	TGATTCTTTCAGCCCTGCTCA
<i>SF3B3</i>	TTGAGGTCTAATGGCGGACG	ACGGAGTCCAAGAAAGCCTG
<i>HSPA8</i>	TTGAACTCGCCTGCAGCTCT	CCCTTGACATGGTTGCTGG
<i>PIK3AP1</i>	ATGGCAGCCTCAGGGGTG	AGGAACAGGGTCTGCAGGTA
<i>RASSF2</i>	ATGCCAAGCTCCACAGACTC	ACTAGGCGTCTCACATTGC
<i>PSEN1</i>	ACCACCTGAGCAACTACTAATGACA	CACATGCTTGGCGCCATATT
<i>PPWD1</i>	TTCGTAGTACCTGGGAGTT	TTGCATCCCCTGGGCAATAG
<i>COX6B1</i>	GTGTCTTTGCTGAGGGTCAC	GCCATGGTGCTGAATCCTAAAG
<i>POMP</i>	GAGCTGCGGAAGATGAATGCC	AGCGGAGCAAATAGACCCTGA
<i>FTL</i>	GAGCCACTTCTTCCGCGAAT	TCATCTTCAGCTGGCTTCTTGA
<i>EMP3</i>	CAGCAGGGTGGGGCTTC	CAAAGTGGCCACGAAAAGCA
<i>SF3B6</i>	CGAACATTGACTTCCACCTGA	TCTTCTGAAATGCCCTGTTGG
<i>ATP5MD</i>	GGGCCGAGAGGTGGTTACA	GGTGGGAACAAACAGCTGCC
<i>POLR2L</i>	GAGTACACCGAGGGGGATGC	TGAGCAGCTTCTCGATCAGG
<i>HBE1</i>	TTCCGACACAGCTGCAATCA	AAACAACGAGGAGTCTGCC
<i>β-actin</i>	TTCTTCCTGGGCATGGAGTC	TCTTCATTGTGCTGGGTGCC

Table S2 The sequences of siRNA used for TRIM27 and HMOX1 knockdown

siRNA name	sequences
siRNA negative control	5'-GUAUGACAACAGCCUCAAGTT-3' 5'-CUUGAGGCUGUUGUCAUACTT-3'
TRIM27 siRNA-845	5'-GGAACAGGCACGAGCUGAATT-3' 5'-UUCAGCUCGUGCCUGUUCCTT-3'
TRIM27 siRNA-1259	5'-GGAGAAAUAUCAAGAAUUATT-3' 5'-UAAUUCUUGGAUUUUUCUCCTT-3'
TRIM27 siRNA-1475	5'-GGUAGAGGUGGGAGAUAAATT-3' 5'-UUUAUCUCCCACCUUCUACCTT-3'
HMOX-1 siRNA	5'-CAGGCAAUGGCCUAAACUUCAdTdT-3'

Table S3 Antibodies used in western blot

Antibody	Dilution	Cat No.	Manufacturer
TRIM27	0.736111111	12205-1-AP	Proteintech, Wuhan, China
HK-1/2	0.736111111	P07986	Promab, Changsha, China
PKM	0.736111111	10078-2-AP	Proteintech, Wuhan, China
LDHA	0.736111111	P06613	Promab, Changsha, China
GLUT1	0.736111111	P03992	Promab, Changsha, China
HMOX1	0.736111111	MAA584Hu22	Cloud-Clone Corp., Wuhan, China
β -Actin	1:40000	A3854	Sigma-Aldrich, Saint Louis, USA

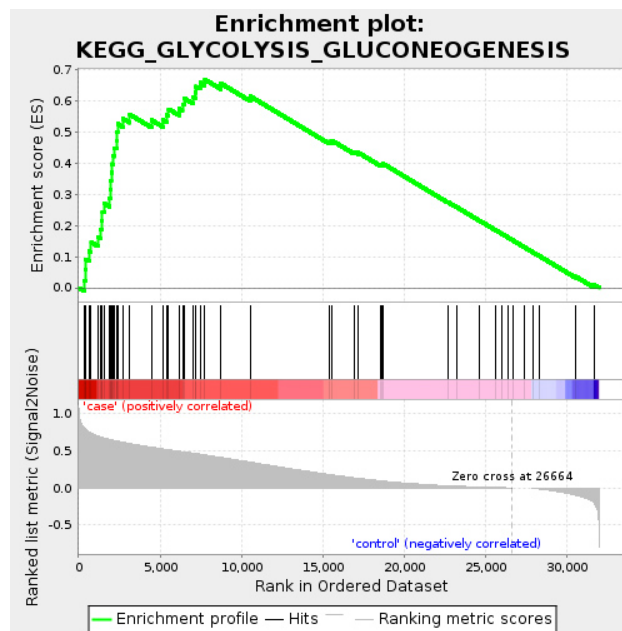


Figure S1 GSEA revealed the highest enrichment is the glycolysis and gluconeogenesis KEGG pathway. GSEA was run with the TPM-normalized data and determined pathway-level ranking scores based on GSEA P values and NES. According to the ranking of the NES, the pathway with the highest enrichment score in the case group (malignant GGOs group) is the glycolysis and gluconeogenesis KEGG pathway. GSEA, Gene Set Enrichment Analysis; KEGG, Kyoto Encyclopedia of Genes and Genomes; NES, normalized enrichment score; GGO, ground-glass opacity; TPM, transcripts per kilobase million.

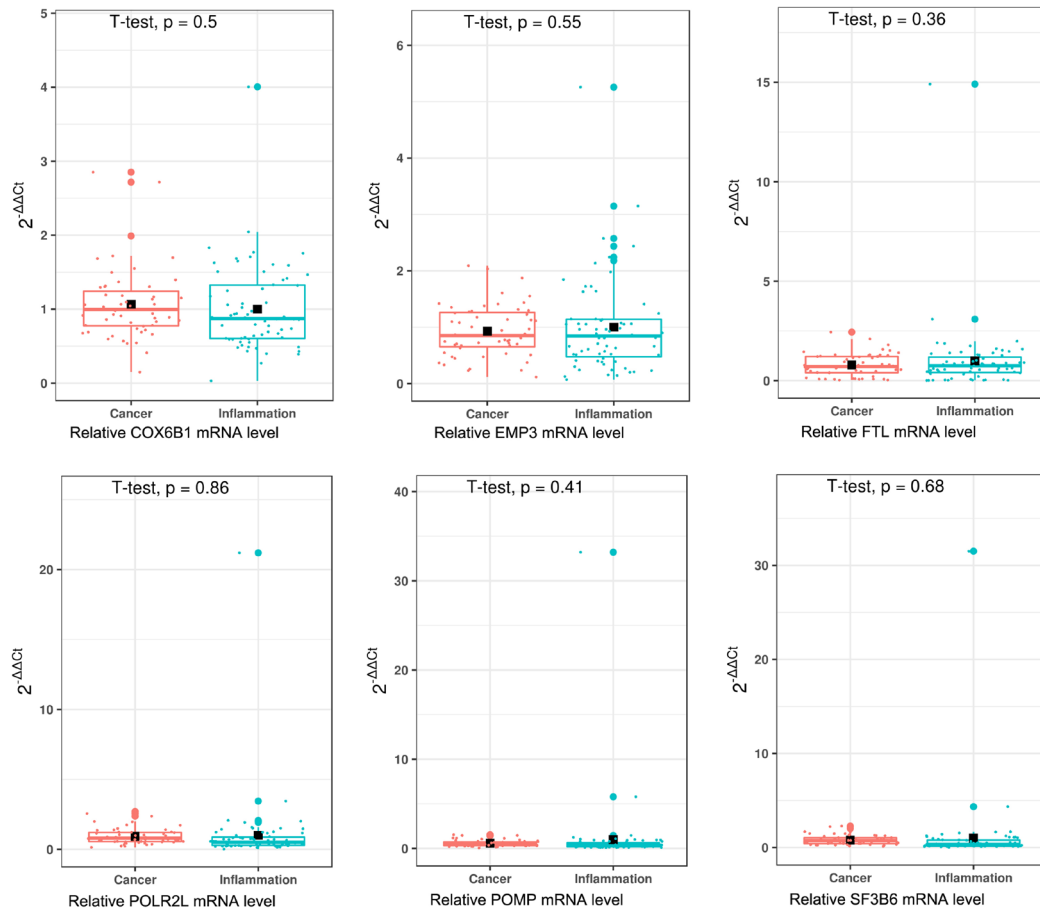


Figure S2 Verification of expression levels of the selected 23 DEGs in platelets samples. In 23 selected DEGs, 6 DEGs were no difference by HT-qPCR verification ($P > 0.01$). Cancer: malignant GGOs, in red; Inflammation: benign GGOs, in green. The left vertical axis represents average $2^{-\Delta\Delta C_t}$ (relative to the internal reference β -actin) using to evaluate mRNA levels, cancer =56; inflammation =66. DEGs, differentially expressed genes; HT-qPCR, high-throughput quantitative polymerase chain reaction; GGO, ground-glass opacity.

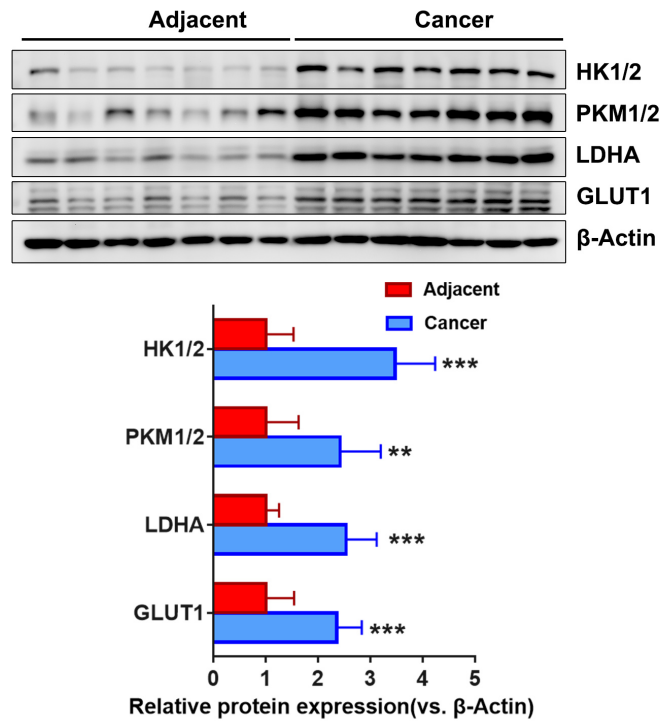


Figure S3 The protein expression of glycolysis factor in tissues. Western blot was used to measure the protein expression of HK1/2, PKM1/2, LDHA and GLUT1 in the seven paired NSCLC and adjacent tissues (upper). The densities of each band were quantified by the Image J program (lower). **, $P < 0.01$; ***, $P < 0.001$ vs. β -actin.

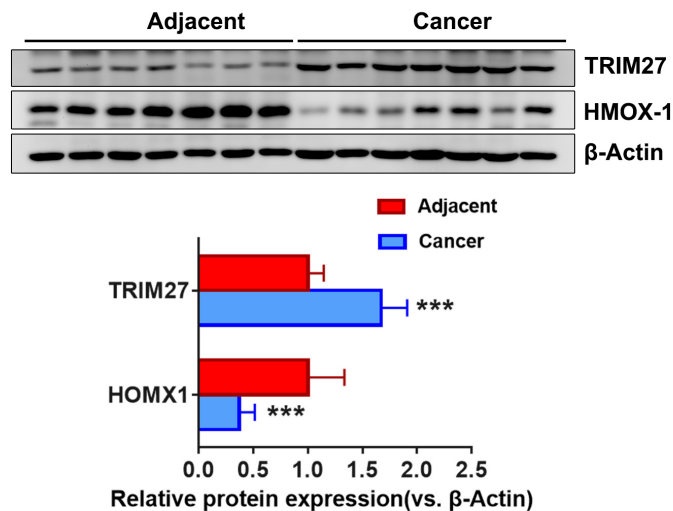


Figure S4 The protein expression of TRIM27 and HMOX1 in tissues. Western blot was used to detect the protein expression of TRIM27 and HMOX1 in the seven paired NSCLC and adjacent tissues (upper). The densities of each band were quantified by the Image J program (lower). ***, $P < 0.001$ vs. β -actin.